

```

/*-----*
* File Name: AddPlotsToLayerAndGroup.c *
* Creation: ER, 02/11/05 *
* Purpose: Programming Example *
* Copyright (c) OriginLab Corp.2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010 *
* All Rights Reserved *
* *
* Modification Log: *
*-----*/

#include <Origin.h>

////////////////////////////////////
// This example shows how to add a few new plots to an existing graph layer and
// then group the newly added plots.
// Call this function with a graph that already has some (grouped) data plots
//
void add plots to layer and group()
{
    // Work with the active graph
    GraphLayer gly = Project.ActiveLayer();
    if( !gly )
    {
        out_str("Active layer is not a graph layer!");
        return;
    }

    // Create a new wks and import one of the sample data files
    string strFile = GetAppPath(true) + "Samples\\Curve Fitting\\Exponential Decay.dat";
    if( !strFile.IsFile() )
    {
        printf("File %s is not exist.\n", strFile);
        return;
    }

    WorksheetPage wpg;
    wpg.Create("Origin");
    Worksheet wks = wpg.Layers(0);
    wks.ImportASCII(strFile);

    // Add only the columns you want to add.
    // For example, add the 2nd and 4th column
    // First need to create curve objects
    Curve crv1(wks, 1);
    Curve crv2(wks, 3);
    if( !crv1 || !crv2 )
    {
        out_str("Failed to declare curve!");
        return;
    }
    // Add data plots for these two curves to layer
    int nIndex1 = gly.AddPlot(crv1);
    int nIndex2 = gly.AddPlot(crv2);
    if( -1 == nIndex1 | -1 == nIndex2 )
    {
        out_str("Failed to add plots to layer");
        return;
    }

    // Now group the added plots
    gly.GroupPlots(nIndex1, nIndex2);

    // Rescale layer
    gly.Rescale();

    // Refresh legend
    legend update(gly);

    // Bring graph page to forefront in case new wks is on top of it
    GraphPage gpg = gly.GetPage();
    gpg.SetShow();

    // To add entire worksheet to graph layer, where appropriate plottable columns
    // will be added to layer and grouped together, use:
    //gly.AddPlot(wks, IDM_PLOT_LINESYMB);
}
////////////////////////////////////

```